

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number  
**WO 2005/081307 A1**

(51) International Patent Classification<sup>7</sup>: **H01L 21/8246**,  
G06K 19/07, 19/077, 19/10, H01L 27/10, 27/112, 27/12,  
29/786

(21) International Application Number:  
PCT/JP2005/002680

(22) International Filing Date: 15 February 2005 (15.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2004-045480 20 February 2004 (20.02.2004) JP

(71) Applicant (for all designated States except US): **SEMI-  
CONDUCTOR ENERGY LABORATORY CO., LTD.**  
[JP/JP]; 398, Hase, Atsugi-shi, Kanagawa 2430036 (JP).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **KOYAMA, Jun**  
[JP/JP]; c/o SEMICONDUCTOR ENERGY LABORA-  
TORY CO., LTD., 398, Hase, Atsugi-shi, Kanagawa  
2430036 (JP).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: MANUFACTURING METHOD OF SEMICONDUCTOR DEVICE, AND IC CARD, IC TAG, RFID, TRANSPON-  
DER, BILL, SECURITIES, PASSPORT, ELECTRONIC APPARATUS, BAG, AND GARMENT

